

Technical Information

M-Yeast and Mould Broth

Product Code: DM 2117

Application: - M-Yeast and Mould Broth is used for counting yeasts and moulds in samples by membrane filter technique.

Composition**

Ingredients	Gms / Litre
Biopeptone	10.000
Yeast extract	9.000
Cerelose	50.000
Magnesium sulphate	2.100
Potassium phosphate	2.000
Diastase	0.050
Thiamine	0.050
Final pH (at 25°C)	4.6±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

M-Yeast and Mould Broth is used for counting yeasts and moulds in samples by membrane filter method. It can also be used for cultivating other aciduric microorganisms in sugars (1).

Cerelose; a refined dextrose which is easily fermented by the moulds is included in the medium along with the amylolytic enzyme diastase. Biopeptone and yeast extract supply sufficient nitrogenous nutrients for the growth of the moulds. Thiamine (vitamin B1) functions in intermediate carbohydrate metabolism in the coenzyme form. Magnesium sulphate provides the ions for fungal growth. The acidic pH of the medium favours the growth of moulds, yeasts and aciduric microorganisms. The medium is used to saturate sterile absorbent cotton pads. Membrane filters through which sample has been passed is aseptically placed on these saturated cotton pads. Incubation is carried out at 30°C for 48-72 hours.

Methodology

Suspend 7.32 grams of dehydrated powder media in 100 ml distilled water. Mix thoroughly & sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity

Light yellow coloured clear solution without any precipitate

Reaction

Reaction of 7.3% w/v aqueous solution at 25°C. pH : 4.6±0.2

pH Range

4.40-4.80

Cultural Response

DM 2117: Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours.



Dehydrated Culture Media
Bases / Media Supplements

Organism	Inoculum (CFU)	Growth
* <i>Aspergillus brasiliensis</i> ATCC 16404	50-100	luxuriant
<i>Candida albicans</i> ATCC 10231	50-100	luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	luxuriant

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

1. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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